

## T116

### 16-Span T1/E1/J1 Tapping Board

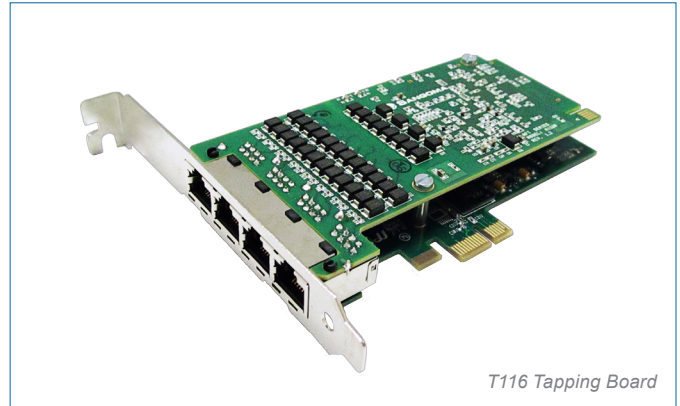
**Dedicated tapping solution for up to 8 two-way connections or 16 one-way connections.**

The T116 is part of Sangoma's family of Advanced Flexible Telecommunications hardware product line—using the same PCI Express interface that is providing superior performance in critical systems all over the world.

The T116 supports the passive tapping of up to 240 voice calls using up to 16 T1, E1 or J1 spans.

With Sangoma boards, you can take advantage of hardware and software improvements, as soon as they become available. The T116, like all boards in Sangoma's AFT family, is field upgradable with unbreakable firmware.

Choose the T116 to collect call control information, telecom protocol information and voice/media.



#### Typical T116 Applications:

- **Fraud Detection**
- **Call Recording**
- **Call Logging and Security**

### Technical Specifications

- Sixteen receive-only spans with optimum PCI-Express interface enables tapping of sixteen one-way or eight two-way conversations
- Support for Asterisk®, FreeSWITCH®, and Yate™ PBX/IVR Projects, as well as other open source and proprietary PBX, Switch, IVR, or VoIP gateway applications
- All of Sangoma's AFT products use the same base PCI interface board. Fully compatible with all commercially available motherboards—proper PCI-standard interrupt sharing without manual tuning
- Dimensions: 2U Form factor: 120 mm x 55 mm for use in restricted chassis
- Intelligent hardware: Downloadable FPGA programming with multiple operating modes. Add new features related to voice and/or data when they become available
- Line decoding: HDB3, AMI, B8ZS
- Framing: CRC-4, Non CRC4, ESF, SF, D4. Also compatible with Japan's J1
- PCI Express: 1 Lane PCI Express bus
- Maximum operational power: 5.5 W (1.67 A @ 3.3 V)
- Temperature range: 0–50 °C
- 32-bit bus master DMA data exchanges across PCI interface at 132 Mbytes/sec for minimum host processor intervention
- Ring buffer DMA handling for minimum host intervention and guaranteed data integrity on high volume systems
- Supports Robbed Bit Channel Associated Signaling (CAS) and ISDN PRI
- T1/E1 and fractional T1/E1, multiple channel HDLC per line for mixed data/TDM voice applications
- Optimized per channel DMA streams and hardware-level HDLC handling unload the host CPU
- Uses raw bitstream interfaces to support arbitrary non-standard line protocols, such as non-byte aligned monosynch or bisynch
- WANPIPE® routing stack is completely independent of TDM voice application for total system reliability

- WANPIPE® supports certified, field-tested, and reliable Frame Relay, PPP, HDLC, and X.25

## Operating Systems

- Windows® 2003, Windows® XP, Windows® Server 2008, Windows® Vista, Windows® 7
- Linux (all versions, releases and distributions from 1.0 up)

## Line Protocols

Voice CAS, MFC/R2, PRI, ATM, Frame Relay, X.25, HDLC, PPP, SS7, Transparent bit-stream, BSC

## Higher Level Protocols

IP/IPX over Frame Relay/PPP/HDLC/X.25, X.25 over Frame Relay (Annex G), BSC over X.25, SNA over X.25, PPPoE, PPPoA, IP over ATM

## Certification

- FCC Part 15 Class A, FCC Part 68, CISPR 22, EN 55022, Class A, CISPR 24, AFIC-2016, IEC 60950, JATE
- Technical certifications in Russia and Malaysia

## Diagnostic Tools

WANPIPEMON, SNMP, System logs

## Warranty

5-Year warranty on parts and labour. Plus a 30-day no questions asked return policy.

## Production Quality

ISO 9002

## Ordering Information

SKU	Description
T116	T1/E1/J1 Tapping Board

## Related Product



The T116 is a digital data and voice network board, not subject to TNV evaluation as an approved TELCO-provided DMARK device, providing that isolation from the TNV is utilized in the end-use application.

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